Sumas™ Media

SM-DV7F11

USER OPERATION MANUAL

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INTRODUCTION

This is a 4 channel digital video/audio (see below) recorder. It does local and remote recording, playback and supports triple code remote network surveillance, which allows you to use remote viewing feature from internet when you are away.

AUDIO RESTRICTION

Audio recording is illegal in some states, such as California. So please check with your local law enforcement to confirm it's allowed in your area, without violating the law.

PRECAUTIONS

For your safety, while using the DVR and to prolong device life, please pay attention to the following details:

- When installing device, please comply with all the electric product safety criteria.
- Power and ground
- Be sure to allow the unit to have ventilation space
- Do not touch the power and DVR with a wet hand
- Do not drop liquid on DVR
- Do not put any object on DVR
- Please use soft dry cloth to clean DVR; do not use harmful chemicals.
- Please unplug power line from power source if the Device is not intended to be used for a long period of time.

FEATURES

- 7" LCD panel display
- H.264 compression
- Two USB interface: USB2.0 for data backup, USB1.1 for mouse operation.
- Two Video RCA Output
- Four Audio RCA input (Audio cameras not include, visit www.sumasmedia.com for availability)
- One Audio RCA output.
- Built-in 12V Power Output from DVR for Camera
- Optional Camera Power AC Adapter included
- 500GB 3.5" SATA HDD built in.
- Special file system for security.
- 16 bit color translucent user-friendly GUI, with notes for selected menu items
- Optimized four channel simultaneous playback
- Multi user management
- Support live view, parameter setting and copy playback video via network.
- Include triple code remote network surveillance, Alarm integrated function.
- Remote Internet surveillance
- Cell phone remote viewing,
- Alarm notification via e-mail
- Data backup
- Motion detection
- Supported Cell Phones: iPhone/Blackberry/Android/Windows mobile Phones.

Note: Not all of the phone models are supported. (Check the list in the software CD)

SPECIFICATIONS

Item	Device Parameter	Specification
System	Language	English/Thai/Turkish/Polish/Spanish/French/German/Chinese
	GUI	Graphic menu(OSD Menu)
Video	Video in	4ch composite video input 1.0Vp-p，impedance75Ω，BNC
	Video out	2ch composite video output 1.0Vp-p，impedance75Ω，BNC
	Video display	4ch:1/4channel switch
	Video standard	NTSC/PAL ，NTSC 30f/s，CCIR525line，60scene (NTSC for north America only)
Audio (with this feature's legal issue concern, please read page one)	Audio input	4ch audio input，impedance600Ω，RCA
	Audio output	1ch audio output，impedance600Ω，RCA
	Basic electricity output	Linearity electricity
	Record style	Audio video recorded simultaneously
	Audio compression	ADPCM
Picture proceeding and store	Picture compression	H.264
	Picture resolution	CIF
	Streaming style	ISO14496-10
	Audio style	ADPCM
	Video code rate（4CH）	CIF: 384~768 Kbps(normal)
	Audio code rate	32KB/s
	Data storage	500GB 7200rpm SATA HDD storage
Connector	Network interface	RJ45，10M/100M
Alarm	Alarm input	4 alarm input
Connector	Alarm output	1 alarm output
	Serial interface	Support 1 RS232
	Serial interface	Support 1 RS485
	Network interface	RJ45，10M/100M
Software upgrade	Support USB firmware upgrade	
DVR AC adapter	Voltage input	AC:110~240V
	Voltage output	DC: 19V
Voltage input	19V / Power Consumption	DC 19V / 6W without HDD
Voltage output for camera	12V（+/-0.2）	4channel :12V@2A
Video impedance input	75Ω	75Ω each channel
Video output	1Vp-p	1Vp-p CVBS signal
Working temperature	-10----50℃	Under normal conditions
Camera Specifications	Lens	3.6mm Sharp High Resolution 1/3 CCD
	Pixel	NTSC 512h x 492V
	TV lines	420 TV Lines
	Other	IR Night Vision, Waterproof color cameras, 12V DC

MOUSE OPERATION

The mouse is the primary input device for navigating system menus.

NOTE: Unless otherwise noted, all system functions described in this manual are achieved using the mouse.

To use a mouse with the system:

1) Connect a USB mouse to the **USB MOUSE port** on front panel or the back of the system.

NOTE: The top USB port on the back panel is designed for data backup to a USB flash drive ONLY.
Do not connect a USB flash drive to the bottom USB port on the rear panel.

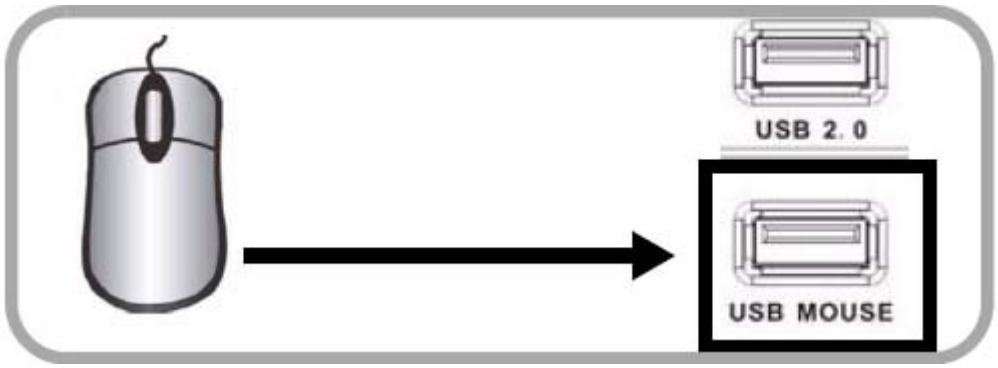
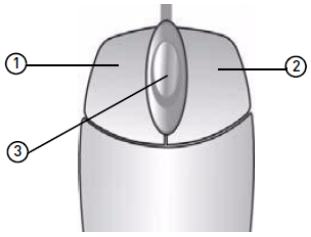


Figure 1 Connect a USB mouse to the bottom USB port on the front panel

2) Use the mouse buttons to perform the following:



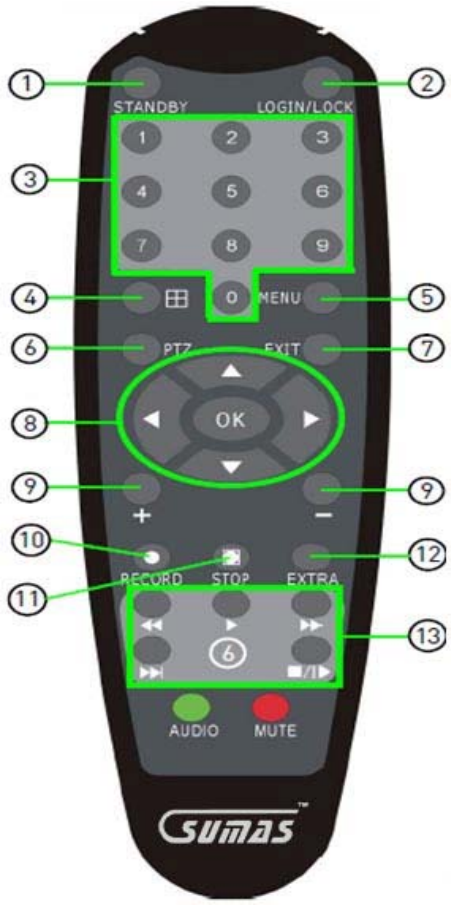
- **Left-Button**: Click to select a menu option. During live viewing in split-screen, double-click on a channel to view the selected channel in full-screen; double-click the channel again to return to split-screen view
- **Right-Button**: Click to open the Sub-Menu
- **Scroll-Wheel**: No function.

REMOTE CONTROL OPERATION

REMOTE CONTROL

The remote control is the secondary input device for navigating the system's interface.

The enter key on remote control has the same function as left click of the mouse.



To use the remote control:

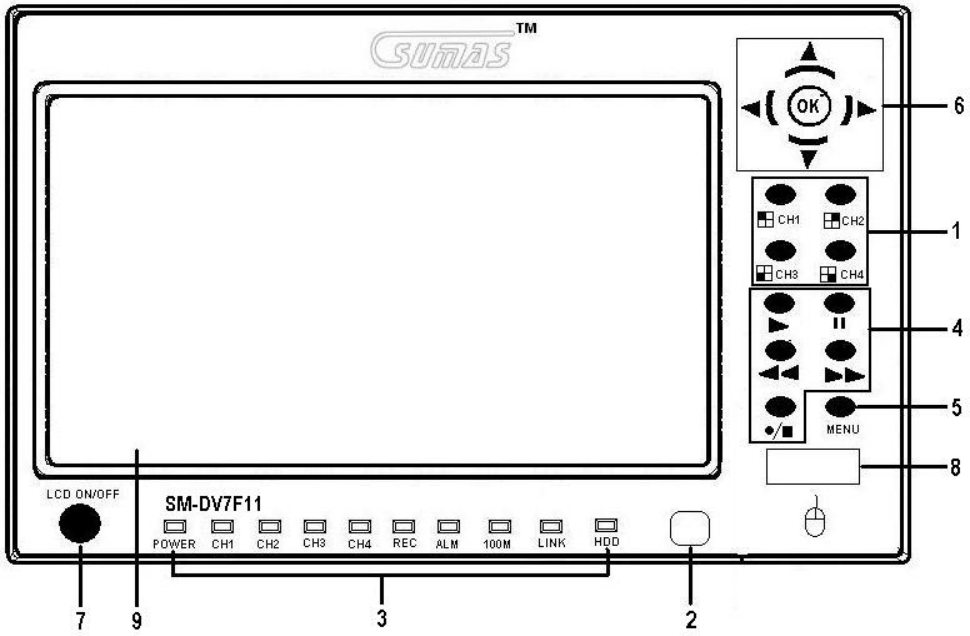
1. **STANDBY**: Press and hold to turn standby mode ON/OFF.
2. **LOGIN/LOCK**: If "Security" has been enabled in the Setup menu, press to open the user password login screen.
3. **Number/Channel buttons**: While in the menu, Press buttons 0~9 to enter values; during live viewing, Press to view channels in full-screen (1-4).
4. ⊞: Press to switch between full screen and quad-screen displays.
5. **MENU**: Opens the main menu.
6. **EXIT**: Close menu windows.
7. **Navigation/OK**:
8. • ▲/**CH+**: Move cursor in menus up; Channel Up.
   - ▶/**FWD**: Move cursor in menus right; during playback Fast forward playback speed (5X, 15X, 60X).
   - ◀/**REW**: Move cursor in menus left; during playback, Rewind playback speed (5X, 15X, 60X)
   - ▼/**CH-**: Move cursor in menus down; Channel down.
   - **OK**: Menu: press to confirm selections; during playback and preview: press to view system information.
9. **+/ -** : In menus, press to adjust values.
10. **RECORD**: Press to start manual recording.
11. **STOP**: Press to stop manual recording.
12. **EXTRA**: For the future use.
13. **Playback controls**:
    - ⏪: Increase reverse playback speed 1X, 2X, 4X
    - ⏵: Press to start playback
    - ⏩: Press to increase forward playback speed 1X, 2X, 4X
    - ⏭: Press to slow playback speed by 1/2, 1/4, 1/8
    - ⏯: Press to freeze playback to one frame, then press again to advance frame-by-frame

TIP: When using the remote control to enter password and camera titles, select the field using the navigation buttons, Press ENTER, and then press the number buttons.

DVR INSTALLATION GUIDELINE

FRONT PANEL CONTROLS

THE DEFINITION OF BUTTONS AND CONNECTORS ON REAR PANEL



1） **Channel buttons**: Press to select enable full screen view on the selected channel (1-4)

2） **IR Sensor**: IR receiver for the remote control.

3） **LED Indicators**: Shows status of Power, CH1-4, Recording, Alarm, Network and HDD.

4）**Playback buttons**: Playback controls:

6] ◀◀: Increase reverse playback speed 1X, 2X, 4X

7] ■▶|: Press to freeze playback to one frame, then press again to advance frame-by-frame

8] ▶: Press to start playback

9] ▶▶|: Press to slow playback speed by 1/2, 1/4, 1/8

0] ▶▶: Press to increase forward playback speed 1X, 2X, 4X

5） **MENU/EXIT**: Press to open/close the main menu.

6） **Navigation/OK**: Press the Navigation buttons to perform the following:

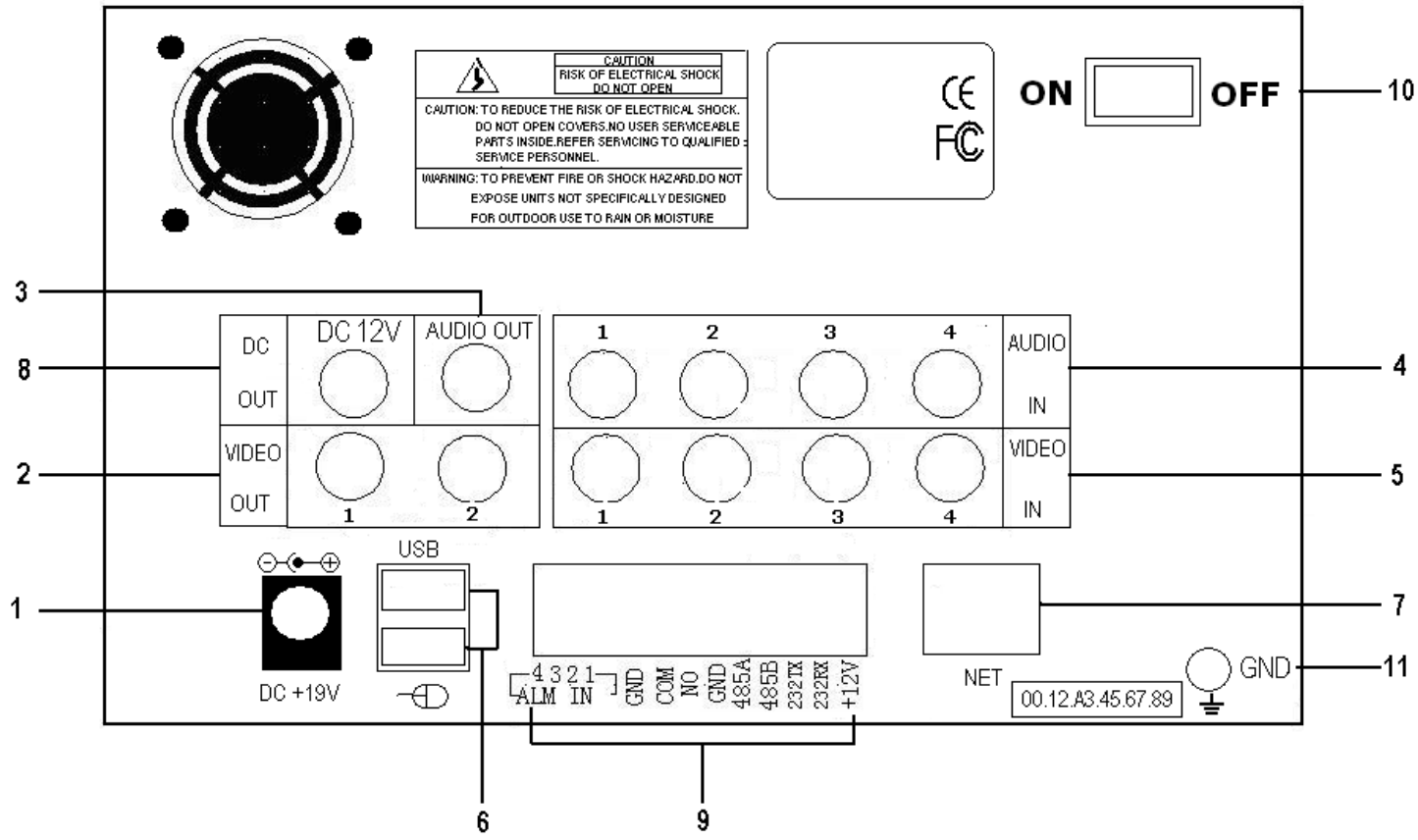
- **OK**:
- ▲: Press to move cursor up;
- ▼: Press to move cursor down;
- ◀: Press to move cursor left;
- ▶: Press to move cursor right;

7) **LCD ON/OFF:** Open or Close the screen

8) **USB Port:** Mouse USB port

9) **LCD Screen:** LCD display Screen.

REAR PANEL



Connectors on Rear Panel

Item	Physical connector	Connector description
1	POWER Input	DC 19V
2	Video Output	Two video output for connecting TV or monitor (BNC) +RCA
3	Audio Output	For connecting analog video signal input (BNC)
4	Audio Input	For connecting audio signal
5	Video Input	For connecting the cameras
6	USB	Connect a USB flash drive to the top port for data backup and firmware upgrades connect a USB mouse to the bottom port.
7	Network	For connecting Ethernet
8	+12V	Power supply 12V DC 100MA. For camera power feed and alarm.
9	Alarm Input	4 I/O alarm input
10	ON/OFF	On/Off Switch
11	GND	Ground connector

SYSTEM OPERATION

STARTING THE SYSTEM

To power the system **ON/OFF:**
Connect the power cable to the DC 19V port on the rear panel, then flip the **ON/OFF** switch at the back of the unit to **ON**. At startup, the system will perform a basic system check and runs an initial loading sequence. After a few moments, the system loads a live display view.

Standby Mode (Power off)

The system can also be put into Standby Mode. Power will remain to the system but will not be recording.
To start/stop Standby mode:

1) Press and hold the **STANDBY** button on the remote control until the prompt closes, right click anywhere on the screen to bring up the sub-menu and select "**STANDBY**" and confirm. The system enters standby mode.
2) Press and hold the **STANDBY** button on the remote control until the system beeps. The system will begin powering up.

SYSTEM LOGIN

To open the Main Menu:
Right-click anywhere onscreen to open the Sub-Menu and select **MAIN MENU** (mouse only), or press the **MENU/EXIT** button on the remote control or front panel of the system. If the password is setup enter the correct password using the on-screen keyboard.

MAIN MENU

Main menu

1) **SEARCH**: Search for recorded video on the system.
2) **RECORD**: Configure recording parameters (quality, resolution, etc…)
3) **HDD**: Display hard drive status, override, and format options in the system.
   Note: You can also format a USB flash drive.
4) **BASIC**: Open the Basic Setup Menu, which lets you, set the date and time, Device IDs, Password and audio/video settings.
5) **ADVANCE**: Opens the Advanced Setup Menu, which lets you view:
   INFO/ALARM/MD/MOBILE/MAINTAIN/NETWORK SETTINGS
6) **EXIT**: Closes the Main Menu.
7) Displays information about the contents of the selected Main Menu icon.

*Audio capable cameras (not included) are required for audio recording on the system.
Please visit www.sumasmedia.com for availability.

BASIC OPERATION

USING THE SUB-MENU

Mouse Only

When using the mouse, display the Sub-Menu to access several system options.

To open the Sub-Menu:

1) Right-click anywhere onscreen. The Sub-Menu opens.
2) Select one of the following options:
   - **MAIN MENU**: Opens the main system menu
   - **KEYLOCK**: Locks buttons on the front panel
   - **CHN SWITCH**: Select type of split-screen display
   - **VIDEO SEARCH**: Opens the Search Menu to view recorded video
   - **MUTE OFF:** Turns mute option off.
   - **MANUAL REC**: Starts manual recording
   - **STOP REC**: Stops manual recording
   - **STANDBY**: shutdown
3) To close the Sub-Menu, click anywhere on the screen.

PLAYBACK

View recorded video on the system through the Search Menu.

To begin playback:

1) Right-click anywhere onscreen and select **VIDEO SEARCH**, to display the Search Menu.

NOTE: When you first open the Search Menu, it displays the current month and date.

2) Click **PLAYBACK** to playback the last minute of recorded video. Quad screen will show up and play.
3) Double click on the desired channel to play in full screen.

3) To select a specific date: By clicking on the desired number from the drop down list from left to right, to input the desired date on "**Record File**" section.

5) Click **SEARCH**. Recorded events on the system appear in red (alarm events—includes both alarm and motion events) and green (normal recording).
6) Click **a date** in the Month Grid to search for video files.
7) Click **a time block** in the Hour Grid to view the video. Playback begins.

Onscreen Playback Controls

To use the onscreen playback controls:

1) Click the VCR-like controls to **play**, **pause**, **fast forward**, **rewind**, and **slow down** playback.
2) Drag the slider to adjust the volume (audio capable camera required, not included). Select the box to mute the audio.
3) Move the mouse slightly to display the onscreen playback controls. You can also use the playback control buttons on the remote control or front panel of the system.
4) Click **X** to quit playback and return to the Search menu.

BASIC OPERATION Cont.

SEARCH

Search and playback recorded video on your system.

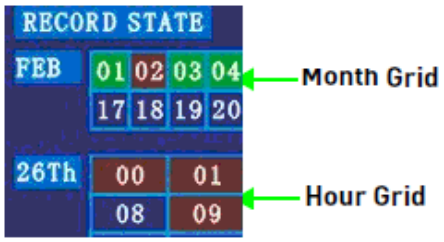
NOTE: When you first open the Search menu, it will display the current month and date.

To perform a Quick Search:

- Open the Search menu and click **SEARCH**. Recorded events on current month will show in red.

To perform a Date & Time search:

1) Under DATE, click the field and enter the desired date using the Virtual Keyboard click ⏎ when done and then click "**SEARCH"**. The system will search for data.
2) Under "**RECORD STATE**", the system shows recorded events in a Month Grid and a Time Grid. The selected day of the month will be outlined in red. **Green**=normal recording; **Red**=alarm recording (includes both alarm and motion events).



Record grid

3) Click a date in the month grid to view recorded video files for that selected date in the hour grid. Playback will begin.

4) During playback, use the onscreen controls or the playback buttons on the remote control or front panel to control playback.

BASIC OPERATION Cont.

FILE LIST

Use the File List sub-menu to see a detailed list of all the recorded video on your system.

To open the File List:

1) From the Search Menu, click **SEARCH** to search the system for recorded video.
   - Repeat steps 1-2 from Search on page 7 to select specific date.
2) Click **FILE LIST** at the bottom of the menu. The File List menu opens.

File list menu

To use the File List:

1) Under "**CHN SWITCH**", select the desired channel to be viewed (1-4 or ALL)
2) Under "**TYPE"**, select **NORMAL** to view only normal recordings, **ALARM**, to view alarm recordings (includes alarm and motion detection), or **ALL** to view all video on the selected date.
3) Use the buttons on the side panel to navigate the file list:
   - **FIRST**: Jump to the first page of the list
   - **PRE**: Turn to the previous page
   - **NEXT**: Turn to the next page
   - **LAST**: Jump to the last page of the list
   - **ALL**: Selects all files (puts a check mark on the "**BAK**" box
   - **OTHER**: Clear all files
   - **BACKUP**: After selecting the desired file(s), click to begin copying the data to a USB flash drive (not included);
4) Click any file to begin playback.

BACKUP

Use the File List sub-menu to find recorded video on your system and copy it to a USB flash drive (not included).

NOTE: The system is compatible with most major brands of USB flash drives, with capacities from 256 MB to 4 GB.

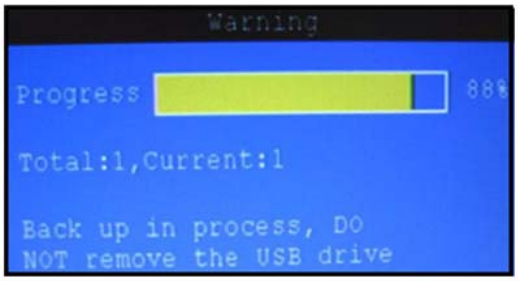
To backup recorded data:

1) Connect a blank USB flash drive to the top USB port on the back of the unit.
2) Open the Search menu and select the desired date for recorded data on the system.
3) Click **FILE LIST**.
4) Select the files you want to backup and click the "**BAK**" box next to the file name (see picture below). Select multiple files if desired. Click **ALL** to select all files; click **OTHER** to deselect all files.

NOTE: The size of each file is shown in the File List menu. Use this to help you find a USB flash drive with enough space to hold all the files you wish to backup.

5) Click BACKUP from the side-panel to immediately begin copying the files to the USB flash drive.

NOTE: Backup progress appears in the status window. DO NOT remove the USB flash drive during backup.



1) When the space in backup device is less than recording file, the system will prompt "Space not enough"...
2) You can remove USB device directly when backup is finished.

RECORD MODE

Configure record parameters, enable/disable audio.

Note: To display a channel in full screen, double click on the desired channel (1-4); double click to go back to quad-screen view.

To configure recording options:

1) **CHANNEL:** Select the desired channels (1-4) to be turned **ON/OFF**.
2) **RESOLUTION:** Select from **CIF**(normal)/**HD1**(fine)/**D1** (best)
3) **QUALITY:** Select from Normal/High/Highest
4) **AUDIO:** Select **Enable/Disable**
5) **POWER UP:** The system will continuously record on startup (under Normal Recording) .
6) **TIMER RECORD:** Will record a set schedule
7) **REC. SIZE:** Select from **15MIN/30MIN/45MIN/60MIN**
8) Click **APPLY**, then click **SURE** in the confirmation window.
9) Click **EXIT** in every menu until all windows are closed.

Record

Recording Schedule

- Automatic Record mode

To set the DVR in automatic record mode:

1) Select "**Record**" from the main menu.
2) Under "**Channe**l" turn on all the desired channels you want to record.
3) Select the desired resolution.
4) Enable/disable audio (audio capable cameras ONLY)
5) Under "**Rec. Mode**" Select "**Power Up**" from the drop down menu.
6) Under "**Rec. Size**" select from 15/30/45/60mins. This determines how long the batch per recording will be. For example if the record size is set to 15min, the recorded data will be in intervals of 15minutes, for continuous recording but more convenience when reviewing.
7) Click on "**Apply**" and wait for confirmation and then click "**Exit**" until you reach live view.

- **Timer Record mode**

To set the DVR in Timer record mode:

1) Repeat steps 1-4 above (under Automatic Record Mode)
2) Under "**Rec. Mode**": Select "**Timer Record**"
3) Click on Schedule, a new window will pop-up.
4) Under "**Channel**": Select which channel you want to schedule, from 1-4 or all from the drop down menu.
5) On "**Recording type**" (see picture above): Click a box to select from **Alarm/General/No Record**
6) Click on the desired day and time on the recording grid to set the recording schedule each day.
7) If desired schedule will be the same everyday, repeat steps 1-6 above for "Sunday", then on the copy section, select "**Sun.**" from the "**From**" and then select "**ALL**" from the "**To**", then click "**Copy**". This will copy the same schedule from Sunday to Saturday.
8) Click "**Apply**" and wait for confirmation and then click "**Exit**" until you reach live view.

- Manual Record mode

To set the DVR in Manual record mode:

1) Repeat steps 1-6 from "Time record mode" but leave the entire recording grid blank.
2) Click "**Apply**" and wait for confirmation and then click "**Exit**" until you reach live view.
3) To start manual recording: Right click anywhere on the screen and select "**Manual Record**"
4) To stop recording: Right click anywhere on the screen and select "**Stop Record**"

HDD MANAGEMENT

Displays essential information about the system's internal hard drive, and lets you format the internal HDD and external USB flash drive (not included).

HDD management menu

The HDD menu displays the following:

- **HDD STATUS**: The system will display "OK" for normal operation
- **SIZE**: The total size (in gigabytes) of the internal hard disk drive.
- **FREE SPACE**: The free space (in gigabytes) remaining on the system's internal HDD.
- **AVAILABLE TIME**: The recording time (in hours) remaining on the HDD based on your current record settings
- **OVERWRITE**: Select **ENABLE** or **DISABLE**. If Overwrite is enabled, the system will record over the oldest video data once the HDD is full. If Overwrite is disabled, the system will STOP recording once the HDD is full and the "FULL" LED on the front panel of the system will light up.

Formatting the Hard Drive

Formatting the hard drive can only be done on the unit. The hard drive cannot be formatted remotely!

ATTENTION: **Formatting the HDD will erase all video data. This step cannot be Undone. Also unit has warranty seal label not to be broken for warranty.**

Formatting the USB Flash Drive

Use a USB flash drive to backup recorded video and upgrade the system's firmware. You should always format the USB flash drive you intend to use with the system.

NOTE: Not formatting the USB flash drive may result in improper functionality.

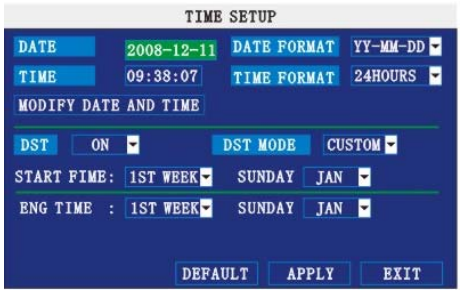
BASIC SETUP

LANGUAGE

To change language: Click on the down arrow next to the language box and select the desired language.
English/Thai/Turkish/Polish/Spanish/French/German/Chinese

DATE/TIME

It is highly recommended to immediately set the date and time when first setting up your system.



To set the date and time:

1) Click **DATE/TIME** and configure the following options:
   - **DATE**: Enter the day, month, and year.
   - **DATE FORMAT**: Select **DD/MM/YYYY**, **MM/DD/YYYY**, or **YYYY/MM/DD**
   - **TIME**: Enter the time
   - **TIME FORMAT**: Use the drop-down menu and select **12HOURS** or **24HOURS**
   - **DST**: Use the drop-down menu to select ON/OFF to enable/disable Daylight Savings Time
2) Click **MODIFY DATE AND TIME**. Click **CLOSE** in the confirmation window.
3) Click **APPLY**. The new date and time are saved.

- Daylight Savings Time

To set daylight savings time:

1) Under DST, select **ON**. DST options appear.
2) Under DST MODE select one of the following:
   - **CUSTOM**: Set customized start and end times for DST (go to step 4)
   - **DEFAULT**: The Default setting will apply DST from the second Sunday of March to the second Sunday in November (go to step 3)
3) If using the DEFAULT, click APPLY.
4) If setting a CUSTOM DST, use the drop-down menus to select a week and month for the start and end times.
5) Click **APPLY**. Click **CLOSE** in the confirmation window.
6) Click **EXIT** in each menu until all windows are closed.

DISPLAY

The section will allow you to customize each camera display. You can customize the camera's name, location/position, color and visibility for each camera/channel; you can also enable the time preview for both record time and preview time.

To customize each camera:

- Under "**NAME**" on the selected channel (1-4) click on the box with the current camera name (CH1) and enter the desired name.
- Under "**POSITION**", click on the down arrow next to the box and select the desired position of the camera/channel name from the list: **TOPLEFT/BOTTOMLEFT/TOPRIGHT/BOTTOMRIGHT/OFF.**
- Under "Color" click setup on the desired channel (1-4), the color setup menu will appear. You can now customize the following **CHROMATICITY/LUMINOSITY/CONTRAST/SATURATION**. Once done, click "APPLY" to confirm change then click on "SURE" to close the confirmation window.
- PREVIEW/RECORD TIME: This feature will allow you to have the time display on or off.

Once done with all the changes make sure to hit "APPLY" and wait for the confirmation screen to say success, then click "SURE" to close confirmation screen, then exit to view changes made.

BASIC SETUP cont.

PASSWORD

When you first startup your system, you are technically logged in as the ADMIN under Device ID000000. The system employs two user authorities connected to a Device ID. The authorities are as follows:

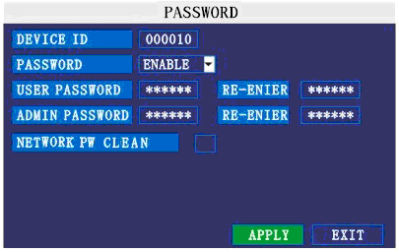
- **ADMIN -** Administrator: Has full control of the system, and can change both administrator and user passwords and enable/disable password checking
- **USER** - Normal user: Only has access to live viewing, search, playback, and other limited authorities.

NOTE: For security reasons, it is highly recommended to enable passwords on your system. If you enable passwords, you must select a 6-digit USER password and a 6-digit ADMIN password.

If you ever forget the password you've inputted, use the override code below:

PASSWORD Override code 020818

ATTENTION: By default, passwords are disabled on the system. You do not need a password to log in or access menus. You will not need a password to access your system using the browser-based remote software.



Password

You can change the Device ID and password of the ADMIN and the USER from the Password menu.

To open the Password/security menu:

1）Right-click anywhere onscreen to open the Sub-Menu and select **MAIN MENU**.
2）Click **BASIC**. The Basic Setup Menu opens.
3）Click **PASSWORD**. The Password/Security menu opens.

To change your **Device ID** and **Password**:

1）Click the field beside **DEVICE ID** and enter a 6-digit numerical **Device ID** using the Virtual Keyboard (mouse only).
2）Under **PASSWORD**, select **ENABLE**.
3） Click the field beside **USER PASSWORD** to enter a **6-digit numerical password** using the Virtual Keyboard (mouse only). Re-enter the password in the corresponding field.
4) Click the field beside **ADMIN PASSWORD** to enter a **6-digit numerical password** using the Virtual Keyboard (mouse only). Re-enter the password in the corresponding field.

NOTE: The USER and ADMIN passwords **MUST NOT** be the same.

5）Click **APPLY** to save your changes. Click **CLOSE** in the confirmation window.
6）Click **EXIT** in each menu until all windows are closed.

Use your new password to log in to the system and access system menus.

NETWORK PW CLEAN: (PW = Password)
Select and click **APPLY** this will disable the IE browser password

VIDEO/AUDIO

VGA Resolution: Select desired resolution for your external display, **800x600** or **1024x768**.
Camera System: Select from NTSC or PAL (NTSC for US only)
Loop Time: Single channel display rotation time.
Input any time desired up to 999 seconds.
Volume Setup: Select from 0-63 (This unit has a built-in speaker)

Adjust Margin: Use to align screen (Top/Bottom/Left/Right) to **fit the LCD.**

ADVANCE SETUP

ALARM

Alarm function and email notifications setup.
Once setup, you will get email notifications with a screenshot of what triggered the alarm.

ALARM SETUP

EMAIL SETUP

TAMPER ALARM SETUP

Alarm Setup

1) From the main menu select "**ADVANCE**"
2) Then click on "**ALARM**"
3) Under "**I/O ALARM**": Select the desired camera to be turned on from the drop down menu. Select "**NO**" Normal Open circuit, "**NC**" Normal Close circuit (**"I"** will show up on the screen), or **"OFF"**.

Note: "NO" = High frequency above 2.2 MHz of your burglary alarm system.
"NC" = Low frequency below 2.2 MHz of your burglary alarm system (standard operation).

4) **HDD LOSS**: Turn on to get email notification if the hard drive gets disconnected or stops working.
5) **VIDEO LOSS**: Turn on to get email notification if one or more of the camera looses video feed.
6) **HDD SPACE**: Turn to get email notification if the HDD runs out of space. (when "**overwrite**" is disabled)
7) Under "**ALARM MANAGER**": "**OUTPUT**" select from **0/10/20/40/60 seconds** to set the time in which the email notification will be sent. "**BUZZER**" select from **0/10/20/40/60 seconds** to set how long the buzzer will go on for. "**POST REC**" select from **30s/1min/2min/5min** to set how long the unit will record for, after the alarm is triggered.
8) Click "**APPLY**" and wait for confirmation then click "**SURE**" on the confirmation window.

Email Notification Setup

1) Click on "**EMAIL SETUP**" the email setup screen will pop-up.
2) Under "**EMAIL**" select "**ON**" from the drop down menu.
3) "**SSL**" select "**ON**" if your email requires SLL.
4) "**SMTP PORT**" enter you emails SMTP port, if any, if you are not sure just leave blank.
5) "**SEND EMAIL**": Enter the email address you want to send from.
6) "**SEND PW**": Enter your emails password.
7) "**RECV EMAIL**": Enter the email address where you want to receive the email notifications.
8) Click "**APPLY**" and wait for confirmation then click "**SURE**" on the confirmation window.

Note: Please make sure that the camera is not located at a high movement area in/out of the building, to minimize the email notifications.

Tamper Alarm Setup

Intergrades to burglary alarm system for motion intrusion notification.

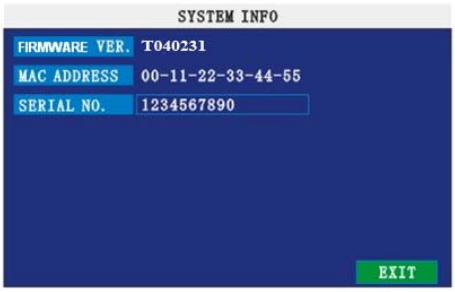
1) Click on "**TAMPER ALARM SETUP**" the tamper alarm setup screen will pop-up.
2) For each channel, select the desired channel to be turn on/off from the drop down menu.
3) Under "**SENSITIVITY**", select from "**LOW/MIDDLE/HIGH**". Repeat for each channel.
4) To cancel or stop using, click on "**Default**", then click "**APPLY**" and wait for confirmation. This will turn all the channels **OFF**.

Note: We require that you have a professional installer to install and setup these features, to avoid having your alarm system to go off prematurely.

ADVANCE SETUP cont.

SYSTEM INFO

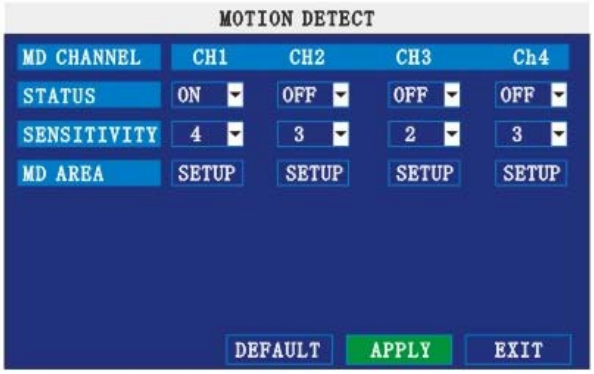
View system information, including the firmware version, MAC address, and serial number of the system.



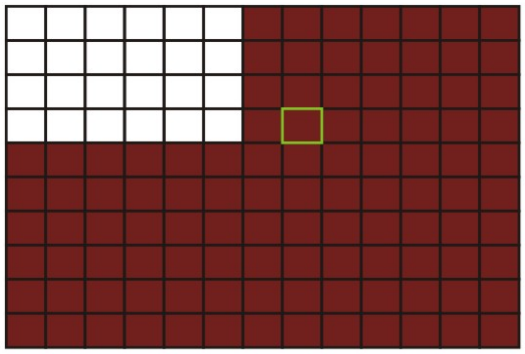
System Info

MOTION DETECT (MD)

Configure motion detection for each channel.


MOTION DETECT
MD CHANNEL CH1 CH2 CH3 Ch4
STATUS ON OFF OFF OFF
SENSITIVITY 4 3 2 3
MD AREA SETUP SETUP SETUP SETUP
DEFAULT APPLY EXIT

Motion detect



To configure motion detection:

(Also how to save storage space on unwanted motion detection recording, by disabling a section of screen that has constant of motion ….such as flag)

1) Under STATUS, select **ON** to enable motion detection for the desired channel.
2) Under SENSITIVITY, select **1**, **2**, **3**, or **4**. The higher the number, the more sensitive the motion detection will be. (**See top left graphic**)
3) Under MD AREA, click **SETUP**. The red motion grid appears over the selected channel in full screen.
4) Click hold and drag the blocks in the grid to enable/disable motion detection area. Red=motion detection enabled; Clear=motion detection disabled. **(See top right graphic)**
5) Right-click anywhere on the screen to return to the Motion Detection menu. - Repeat about steps for each channel.
6) Click **APPLY**. Then click **CLOSE** in the confirmation window.
7) Click **EXIT** in all menus until all windows are closed.

MOBILE

Mobile: To enable remote cell phone viewing. (Selected Cell phones ONLY)

MOBILE NETWORK: Select from the drop down menu: **2.5G/2.75G/3G** NETWORKS.

MOBILE PORT: Input the open port value from your router.

Note: To view DVR from a cell phone, you must have an open port configured from your router (see quick start guide)

ADVANCE SETUP cont.

MAINTAIN

Use the Maintain menu to update system firmware and set an automatic system reset schedule.

To enable auto-reset:

1） Under AUTO RESET, select **ON**. The Settings option appears.

2） Under SETTINGS, select **EVERY DAY**, **EVERY WEEK**, or **EVERY MONTH**. The date drop-down menu appears.

3） Select the date for auto-reset from the drop-down menu.

4） Enter the time for auto-reset using the Virtual Keyboard (mouse only).

5) Click **APPLY**. Click **CLOSE** in the confirmation window

To restore factory settings:

1） Click **DEFAULT SETTINGS**. This will restore the system to the original factory settings.

2） Click **OK** to confirm.

NOTE: Recorded video on the HDD will not be erased.

To restart the machine (soft/partial-reset):

1） Click **RESTART**.

2） Click **OK** to confirm. The system will perform a soft/partial-reset and load to a live split-screen view.

To upgrade firmware: (For future use)

1） Copy the firmware file to an empty USB flash drive. The firmware file should not be in a folder.

2） Connect the USB flash drive to the top USB port on the front panel of your system.

3） Open the System Menu (Main Menu>Advance>**System**).

4） Click "**FIRMWARE UPDATE"**. The system will scan the USB flash drive and begin updating the firmware. Do not remove the USB flash drive while the upgrade is taking place.

5） Click **CLOSE** in the confirmation window. In the system prompt, click **OK**. The system will restart.

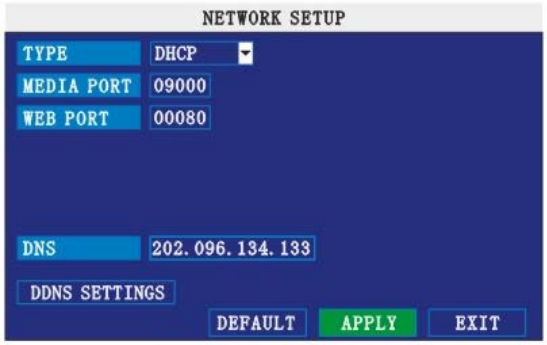
PARAMETER EXPORT: Copy the system settings of the device to an empty USB flash drive.

PARAMETER IMPORT: Import system settings from another device.

ADVANCE SETUP cont.

NETWORK

Use the Network Setup menu to configure your network and DNS settings.
Please consult professional to help setup remote viewing!



Network setup

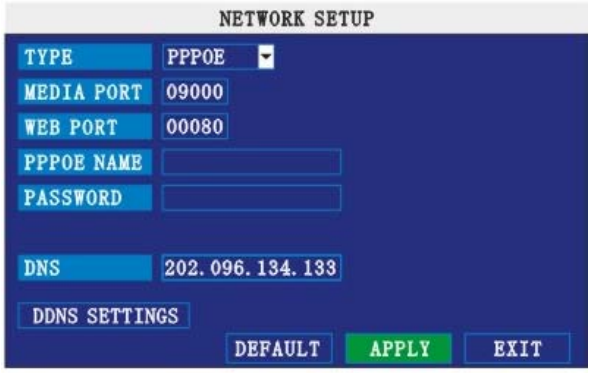
To configure network settings:

Under TYPE: select **DHCP**, **PPPoE**, or **STATIC**. If **DHCP**, go to step 5. If PPPoE, go to step 2. If STATIC, go to step 3.

NOTE: DHCP allows you to quickly connect to your network by obtaining an IP address from the router. After the initial setup, we recommend that you disable DHCP and set the IP address between 1~100. For example, if your IP address is 192.168.0.107, change the last digits to 90 (i.e. 192.163.0.90). This ensures that port forwarding will not change in the event of power failure or resetting of your network.

PPPOE

If you select PPPoE in step 1, enter your **PPPoE user name** and **password** in the respective fields using the Virtual Keyboard.



PPPOE

Static IP

1）Selected **STATIC** in step 1, enter your **IP Address**, **Net mask**, and **Gateway** in the respective fields using the Virtual Keyboard. (**See quick setup guide**).
NOTE: The default IP address of the system is 192.168.3.97 (as sample)

2） If necessary, change the Media and Web Ports.

NOTE: For added security, we strongly recommend changing Web port 80 on the system to any desired port not blocked by your Internet service provider (ISP). Please note however, that you will also need to update the Web port in your browser and open this new port in your router.

3） Click **APPLY**. Click **CLOSE** in the confirmation window.

4） Click **EXIT** in all menus until all windows are closed. The system restarts automatically.

ADVANCE SETUP cont.

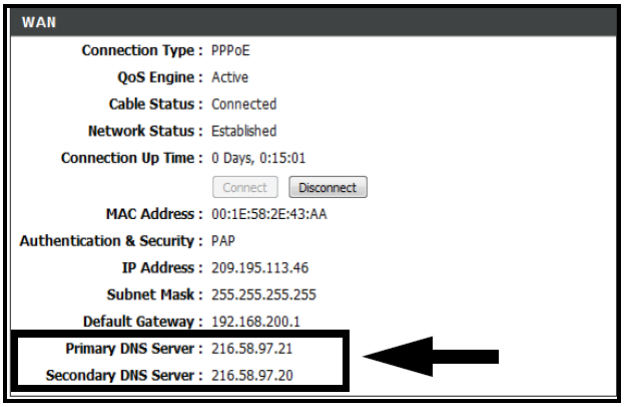
Manual DNS

1) Enter the **Primary or Secondary DNS** from your router.
This is required for DDNS to function properly.

2) To obtain your Primary or Secondary DNS:
In your web browser, log in to your router using its Default Gateway address.

NOTE: Refer to your router's manual or software for login information. You can also get the default Gateway on your PC by selecting Start>Run. Type **CMD** and press **Enter**. In the Command Prompt window type "**ipconfig"** and press Enter.

3) View its **WAN settings**. Enter the **Primary** or **Secondary** DNS address in the **MANUAL DNS** field on your system.

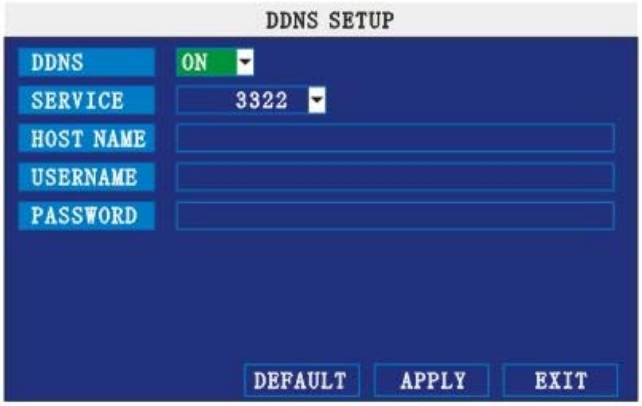


DDNS:

A DDNS account allows you to set up a web site address that points back to your Local Network.

NOTE: You must register DDNS service prior to configuring DDNS settings.
Visit https://www.dyndns.com/ to register.

.



To configure DDNS settings:

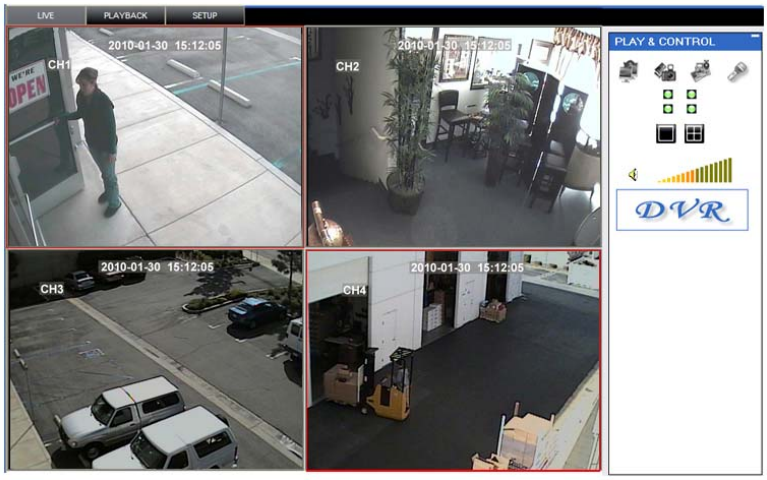
From the Network Setup menu, enter **Primary or Secondary** DNS from the WAN settings of your router in the **MANUAL DNS** field.

1) Click **DDNS SETTINGS**.
2) Under DDNS, select **ON**.
3) Under SERVICE, select 3322, dyndns or perfecteyes.
4) Under DOMAIN NAME, **enter your DDNS** domain from the confirmation email.
   For example, if your domain name is adam@dyndns.com, you need to enter adam@dyndns.com, in the text field.
5) Enter your DDNS **user name** and **password** in the respective fields.
6) Click **APPLY**. Click **CLOSE** in the confirmation window.
7) Click **EXIT**. The system will prompt you says that it must restart. Click **CLOSE**.

REMOTE SURVEILLANCE

FEATURE

The system features built-in browser-based software that allows you to access your system remotely w/multi-user over your local area network (LAN) or over the Internet using Internet Explorer.
- DVR supports C/S, B/S, and visit in LAN and WAN, also supports IP and domain name visiting



Remote Surveillance main screen

RESTRICTION CONDITION:

To ensure PC's stable visiting of DVR, recommend Windows XP, Windows Vista operation system, recommend browser as IE 6.0, IE 7.0 or higher.

USING LOCAL REMOTE SURVEILLANCE

With your system connected to your local area network, you can now log in to your system using Internet Explorer.

NOTE: Your system must be connected to your local or wide area network before attempting remote access.

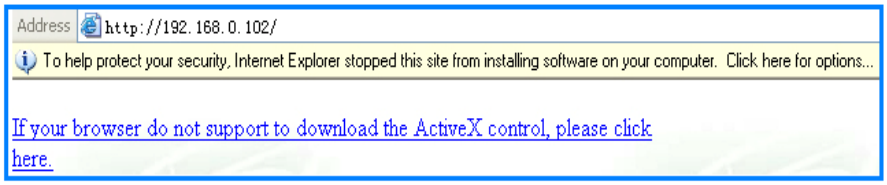
Logging In to Your System

With your IP address, you can now log in to your system over your local or wide area network.

NOTE: By default, the remote surveillance password is disabled. Please enable the IE Password for security. (See page 21)

To access your system:

1) Open Internet Explorer: In the address bar, enter the IP address of your DVR system (i.e. 192.168.3.97).
2) You must install the ActiveX in order to access your system. Click the attention bar at the top of the main page and select **Install ActiveX Control**. DVR Net viewer will reset.


Address
http://192.168.0.102/
To help protect your security, Internet Explorer stopped this site from installing software on your computer. Click here for options...
If your browser do not support to download the ActiveX control, please click here.

Click the ActiveX attention bar

3) In the warning box click **Install**. The login page appears.
4) Once installed select **LAN** on the drop down menu under "**Network**" and click "**LOGIN**"

REMOTE SURVEILLANCE cont.

USING REMOTE ACCESS OVER THE INTERNET

To access your system from a computer NOT connected to your local network follow steps below:

Note: Use the same password you have setup from the local remote surveillance.

1. Input your "**internet IP address**" on the address bar of the internet explorer and press enter. (Your internet IP address can be located from your router's basic setup screen).

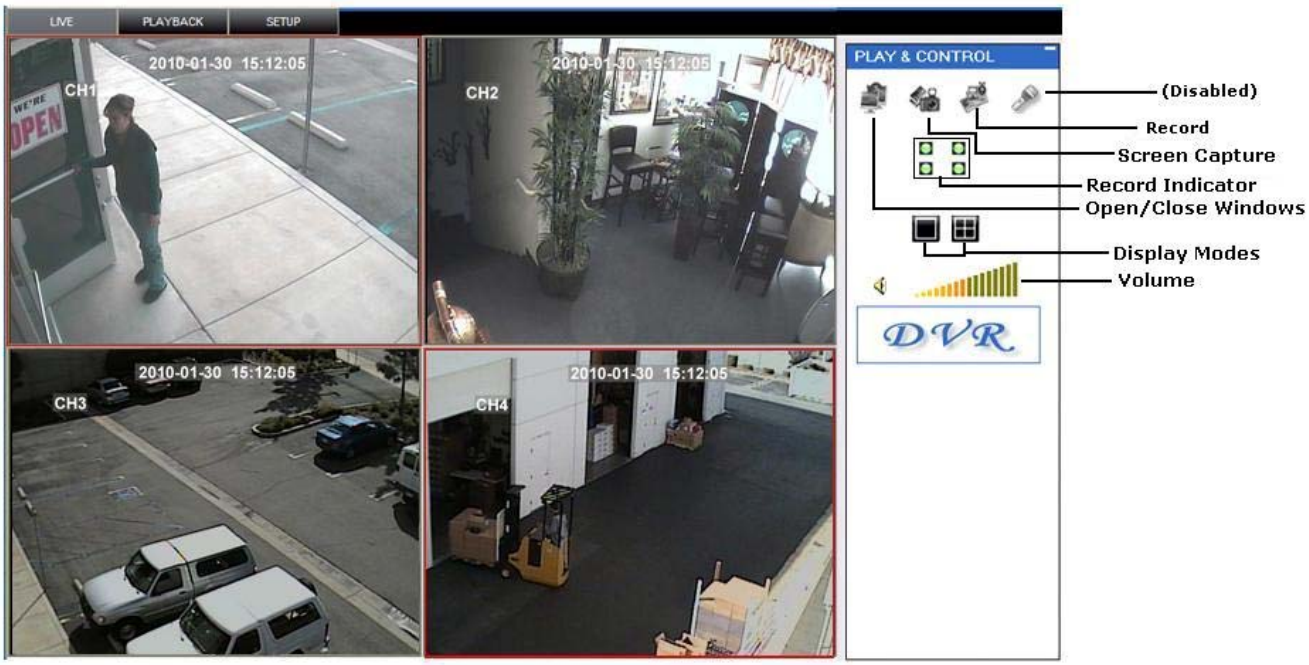
Note: The DVR must be connected to the internet and have the web port (80) and media port (9000) open on your router and the values must match. (Please read the manual of your router on how to open a port)

2. Follow steps 2 and 3 from page 20 under "**Using local remote surveillance**".

3. Once the "Active X" has installed, input your password and click "**LOGIN**".

REMOTE SURVEILLANCE MAIN SCREEN

Upon login, the Remote Surveillance main screen appears in your browser.



1） **Modes**: LIVE, PLAYBACK and SETUP.

2） **Main Screen**: Main display screen for live viewing and playback.

3） **Time Stamp**: Time stamp appears on each channel.

4） **Channel**: Channel number appears in the top left corner.

5） **Functions**: Click the icons to show/hide channels, take screen captures, and record.

6） **Display Modes**: Click the icons to view channels in single-channel full-screen, quad, and Split-screen configurations.

REMOTE SURVEILLANCE cont.

LIVE VIEWING

By default, remote surveillance opens in Live Viewing mode (quad-screen).
To use Live Viewing:

1） Click **LIVE** at the top of the main screen.
2） Click the display mode icons to view the main screen in **single-channel**, **quad**, or **split-screen** configurations. You can also double-click a channel at any time to view it in single-channel.
3） Click to show or hide all the channel windows.
4） Click to start/stop manual recording to your PC on ALL channels. For more details see RECORDING.
5） Select a channel (outlined in red) and then click the audio bars to increase or decrease- listen-in volume. Click the icon to mute/un-mute.

NOTE: This unit does have built-in audio function. (Accessories optional)
*Audio capable camera (not included) required for listen-in audio.

RECORDING

You can record video directly to your PC using the remote surveillance software.
To record video to your PC:

From Live viewing, click to start/stop manual recording to your PC on ALL channels

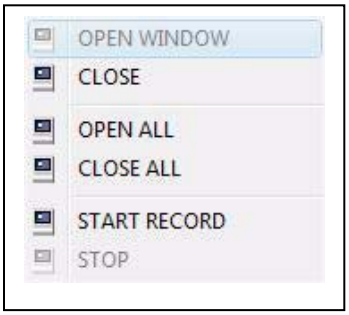
NOTE: You will record video to your PC regardless of the recording mode on the system itself. By default, recorded files are saved in C:\DVR\[ip_address]\Record.

SUB-MENU

Right-click any channel to open the sub-menu.

The sub-menu contains the following options:

- **Open Window**
- **Close**
- **Open All**
- **Close All**
- **Start Record**
- **Stop**



SCREEN CAPTURE

Use the remote surveillance software to take a snapshot of the channels on the main display screen. Screen Captures can be useful for your own records, or may be needed by authorities in case of a security incident.

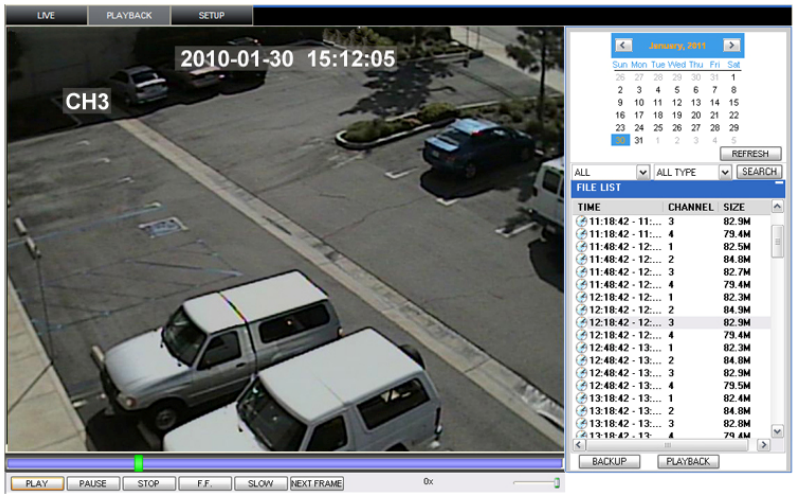
To take a screen capture:

1） From Live Viewing, select the channel you want to capture. The selected channel will be highlighted in a red frame.
2） Click.
3) Click **OK** in the confirmation window. Screen captures are saved as BMP files to the default save location (C:\DVR\[ip_address]\Capture \...).

REMOTE SURVEILLANCE cont.

REMOTE PLAYBACK

Use the Playback menu to search and playback recorded video on your system.



Playback screen

To use the replay menu:

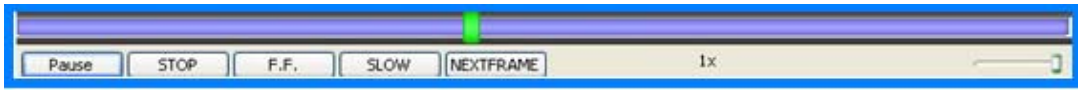
1） Click **PLAYBACK** at the top of the main screen. The main screen will be gray.

2） Click **REFRESH** below the calendar to view the recorded files for the current month. Dates with recording appear in **Bold.**

3) Double-click on the desire date to view list of recorded events.

NOTE: Normal recording is indicated by a clock icon; alarm recording (alarm, loss, and motion events) are indicated by an Exclamation mark icon.

3） Double-click a file from the File List to playback the file in the main screen. The icon in the file list changes to "▶".Control playback using the buttons at the bottom of the main screen.



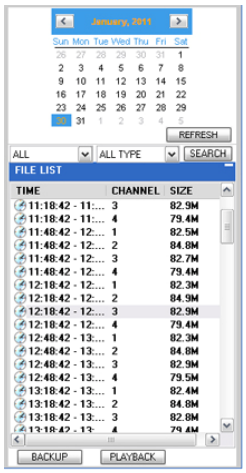
Progress bar

The purple bar indicates the download progress. The green marker indicates playback progress. You can click and drag the playback marker (will turn from green to orange) to advance or rewind playback as needed.

Pause	Switch between pause/play
STOP	Stop play
F.F.	Fast play
SLOW	Slow play
NEXTFRAME	Pause at next frame

SEARCH

Use the calendar and drop-down menus to search for recorded video on your system.



1） Click **< >** to change the month on the calendar.
Dates with recorded video data will appear in **bold**.

2） Click the date. Recorded video files will populate the File List.

3） From the Channel drop-down menu, select a **specific channel** or select **ALL CHANNEL** and then click **SEARCH**.

4） From the "**Type**" drop-down menu, select **COMMON** (normal recording), **ALARM**, or **ALL TYPE** and then click **SEARCH**.

5） Double-click the file from the File List to playback the file in the main screen.

REMOTE SURVEILLANCE cont.

REMOTE BACKUP

You can backup recorded video files from your system to your PC using the **PLAYBACK** menu in the remote surveillance software.

To backup files remotely:

1） Click **PLAYBACK** at the top of the main screen.
2） Select the month and date on the calendar and then click **REFRESH**.
3） Double-click a file from the File List to begin playback.
4） Click **BACKUP**. Backup begins to C:/DVR/[ip_address]/Backup

NOTE: If you want playback a file, the confirmation window will show the saved path of the backup file.
Use the Player Software included on the software CD to playback backed up video.

REMOTE SETUP

Use the Setup tab to configure the settings of your system from a remote location.
NOTE: If the Main Menu is open on the system, you will not be able to make changes to the system from the remote location.
To open remote setup:
Click **SETUP** at the top of the main screen. The Remote Setup menu features the following tabbed options:

- **RECORD**
- **ALARM**
- **NETWORK**
- **SETTING**
- **MAINTENANCE**
- **HOST INFO**

Click **SETUP** to enter into setup interface, this interface include record, alarm, network, setting, maintenance and host info.

RECORD

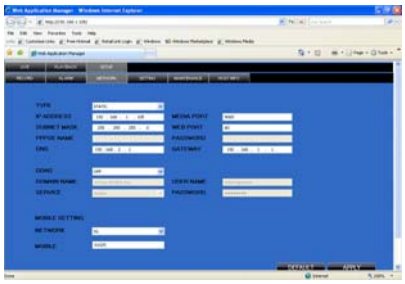
Click **RECORD** to enter into setup interface; you can check the parameter settings as in GUI of DVR.

ALARM

Click **ALARM** to enter the motion detection setup. For you to check/change the status of the motion detect settings.

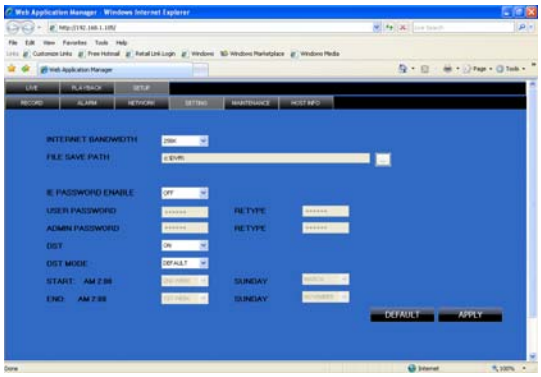
NETWORK

Click **NETWORK** to access setup interface; you can check the parameter settings in GUI of DVR.



REMOTE SURVEILLANCE SOFTWARE cont.

SETTINGS



Click **SETTING** to access setup interface; you can check the parameter settings in GUI of DVR.

BANDWIDTH: Set the bandwidth in kbps (128k、192k、256k、384k、512k、1024k) that you want to allocate for traffic that matches the internet. This bandwidth does not include audio.

FILE SAVE PATH: The save path of captured picture and recording video.

IE Password Enable and **DST** settings.

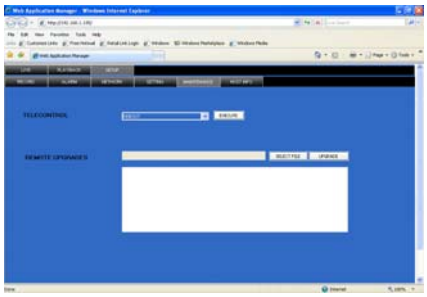
To enable the IE password:

1. Select "**ON**" under "**IE PASSWORD ENABLE**" drop down menu.
2. Enter a 6 character alpha/numeric "**USER**" and an "**ADMIN**" password, retype the same exact passwords under "RETYPE" for verification.

Note: Please a select password that is easy for you to remember but hard for others to guess.

3. Click "**APPLY**" and wait for the confirmation "**Configure Success!**" and click "**OK**"
4. Refresh the browser to go back to the login screen and try your passwords out.

MAINTENANCE



Click **MAINTENANCE** for rebooting the unit or to install software upgrade.

HOST INFO

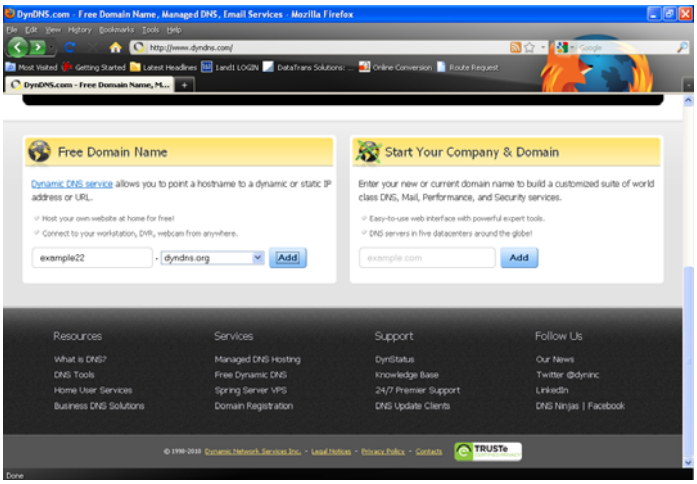
Click **HOST INFO** to access system information interface (see picture). This interface includes HDD status, remain record time, firmware version and MAC Address. All the information is fixed.

Non-Static IP Remote Viewing Configuration

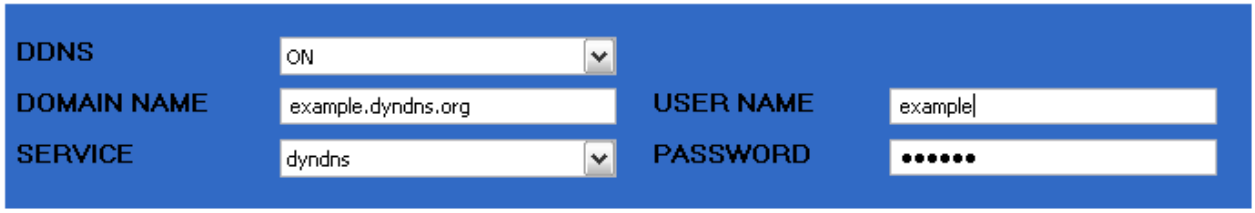
DDNS Setup**

Click on **DDNS Configuration** under the network setup to configure DNS settings.

- If you don't have a registered domain name, please visit www.dyndns.com to setup a free domain name and follow the free account setup. (make sure to select ".**dyndns.org**")

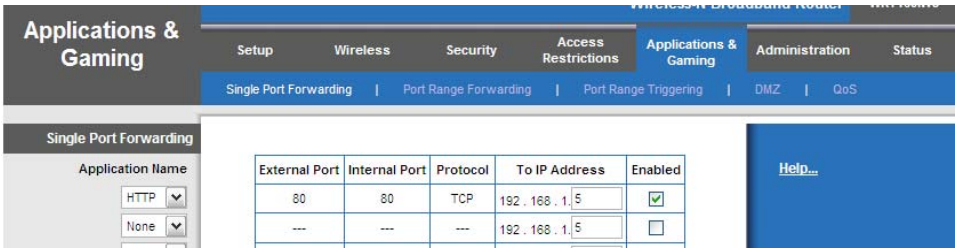


- Once an account has been setup, click on "**DDNS**" on your DVR.
- Turn DDNS to "**ON**"
- Click on the server and select "**dyndns.org"** or **"dyndns**"
- Under "**Username and password**", input your account user name and password from www.dyndns.com
- Under **Domain name** or **Host name** enter the domain name you have created from www.dyndns.com (no need include "**.dyndns.org**").
- Click on "**Apply**" and then click on "**OK**"
- Click "**Sure**" to reboot the system.



Router Setup:

- Input DNS info from www.dyndns.org that you have created into the DDNS setup page on your router configuration page. (Refer to router user manual to access this page via internet explorer or router software)
- You must enable port forwarding for **HTTP port 80** and point it to your local remote viewing IP address.



- Once all the settings are inputted correctly make sure you save and reboot your router.
- Once the router has rebooted; open internet explorer browser on your computer and type the domain name you have registered with www.dyndns.org (http://example.dyndns.org) to verify that it's working.

Note: Different brands of routers will have different ways on how to enable port forwarding. Please check with your routers user manual to properly setup port forwarding.

**Local remote viewing must be setup with a local static IP address.

FAQ (Frequently Asked Questions)

If your problem is not listed below, please call our toll-free number for more support.

1. **Question: DVR is not working after starting?**

   Answer:
   - ✧ Check the adaptor input
   - ✧ Check the power supply line connection?
   - ✧ Make sure the unit is turned on.
   - ✧ Check the LCD ON/OFF button on the front of the panel.

2. **Question: DVR is rebooting automatically or stopped after starting the DVR for several minutes?**

   Answer:
   - ✧ Instability or low input voltage.
   - ✧ Bad sector on the hard drive or the hard drive has gone bad.
   - ✧ Power supply output is not enough or wrong voltage power supply.
   - ✧ Over heating, dusty, or high humidity environment to operate.

3. **Question: No output of single channel, multi channel or all channel video?**

   Answer:
   - ✧ Please check camera's power connection.
   - ✧ Please check the camera's BNC connection to the back of the DVR.
   - ✧ Try swapping the camera connections to determine if there is camera defect issue.
   - ✧ Live view settings is set to closed. (remote view only)

4. **Question: DVR cannot record after startup and the interface is showing "H"**

   Answer:
   - ✧ Make sure the power adaptor is DC 19V.
   - ✧ Confirm the HDD is formatted
   - ✧ The HDD has gone bad.

5. **Question: What is meaning of "R" "M" "I" "H" showed in interface?**

   Answer:
   - ✧ "R" means the channel is recording.
   - ✧ "M" means the channel is on motion detection.
   - ✧ "I" means the channel is on alarm system.
   - ✧ "H" means there is either no HDD, or the HDD is full.

6. **Question: DVR is having problem with real-time images, such as bad image color or serious brightness distortion**

   Answer:
   - ✧ If PAL and NTSC is not correctly selected on the BNC output, the images will be in black and white
   - ✧ DVR is not compatible with monitor
   - ✧ The video transmission distance is too far
   - ✧ The setting of DVR color, brightness and so on are wrong

7. **Question: System time is not correct?**

   Answer:
   - ✧ Wrong setting or user did not click "Apply" to confirm time change in the Date/Time settings. (see page 13)

FAQ (Frequently Asks Questions) cont.

8. **Question: Why the “Stop recording” by the right mouse button does not work, how to stop recording?**
   Answer:
   - ✧ The “**Stop recording**” by right mouse button will only work with Manual recording. This cannot stop recording when the DVR is in “**Power up recording**” mode or the scheduled recording is set to record on that particular time you are trying to stop the recording.

9. **Question: Motion detection is not working?**
   Answer:
   - ✧ The setting of motion detection area is not correct
   - ✧ Sensitivity is too low.

10. **Question: USB backup error**
    Answer:
    - ✧ The data exceeds the capacity of backup device
    - ✧ The backup device is incompatible
    - ✧ The backup device is damaged

11. **Question: Remote control cannot work?**
    Answer:
    - ✧ The distance of remote control is too far or the angle is bad
    - ✧ Remote control batteries run out

12. **Question: WEB cannot login?**
    Answer:
    - ✧ Please check the network to see if it is connected. Check if LINK or 100M LED is displayed normally on the panel; use ping xxx.xxx.xxx.xxx (DVR IP) to check if the Internet is linked properly.
    - ✧ Recommended to use Windows XP or Vista operating system, also use IE6.0 or IE7.0 browser, or higher.
    - ✧ ActiveX control has been blocked. Please manually install ActiveX control again.

13. **Question: There is no picture or picture is not clear when you preview the recording or playback the recording via IE**
    Answer:
    - ✧ If you access DVR by IE, please choose "Wan" in "web environment"
    - ✧ Please try "Close windows" by the right mouse button, and try "Open windows" again

14. **Question: It displays "other members are setting....." while setting DVR by IE**
    Answer:
    - ✧ It probably means someone else is setting up the DVR. Please check the DVR configuration interface or exit DVR, login in a later time.

PACKAGE CONTENT

DVR

Your choice of use
Unit's stand (bracket kit)

Mouse

Remote Control

Batteries

4x Camera

4 X Power & Video Cable

4-way camera power cable splitter

DC Power Supply

4 x Power supply for cameras (optional use)

User Manual

Quick start guide

Software CD

Phillips Screwdriver

BNC to RCA Adapter (**2X**)

4 X Camera Mounting Kit

TROUBLE SHOOTING

PROBLEMS	REASON	SOLUTION
System not powering up	Cable from adapter is loose or unplugged	Check all power connected securely. Confirm all connection
Remote control is not working	Batteries are low, or battery's connection is loose.	Change batteries. Reload the batteries.
Mouse not detected by system	Mouse is not connected or defective.	Reconnect and check all connection
	System needs to reset	Turn off the system, then reboot/power on
No picture on selected channels, Camera not displaying picture	Camera cable are loose or power become disconnected	Check both video cable and power feed cable connection of the camera(s).
A "humming" sound is coming from the system	Fan is active	The humming means the exhaust fan is working normally
The system beeps at startup	normal	The beep at startup is normal
Hard drive storage display show full(0%), And no longer recording	"Overwrite" is not enabled	From the main menu, Selected HDD>overwrite> Enable and click APPLY
Alarm went off, but there's no break-in.	Motion picked up your ~~in-house existing~~ movement from fan, pets, pest.	Reset your camera motion area for not picking-up unwanted monitored movement.
Not receiving emails.	Email not setup properly.	Double check all your settings on the email setup screen. Check with your email provider for the proper email settings.